

What is claimed is:

1 1. A liquid crystal display (LCD) panel, using dot
2 inversion driving to present a video signal polarization
3 arrangement spatially similar to line inversion driving on
4 the panel, comprising:

5 a plurality of scan electrodes;
6 a plurality of data electrodes; and
7 a plurality of display units, each corresponding to a
8 crossed scan electrode and data electrode and
9 having a pixel electrode and a control
10 transistor,

11 wherein gates of control transistors of two adjacent
12 display units in a row between a first and second
13 adjacent scan electrode are respectively
14 connected to the first scan electrode and the
15 second scan electrode, and

16 when dot inversion driving is completed for a frame on
17 the LCD panel, display units in the same row of
18 the frame have the same video signal polarization
19 and display units in two adjacent rows of the
20 frame present polarizations opposite to each
21 other.

1 2. The LCD panel according to claim 1, wherein gates
2 of control transistors of two adjacent display units in a
3 column between two adjacent data electrodes are not
4 connected to the same scan electrode.

1 3. The LCD panel according to claim 1, further
2 comprising a common electrode, connected to each pixel
3 electrode to form a liquid crystal capacitor for each
4 display unit.

1 4. A driving method for an LCD panel including a
2 plurality of scan electrodes, a plurality of data
3 electrodes, and a plurality of display units, each
4 corresponding to a crossed scan electrode and data electrode
5 and having a pixel electrode and a control transistor, the
6 driving method comprising the steps:

7 changing display unit arrangement on the LCD panel such
8 that gates of control transistors of two adjacent
9 display units in the same row are respectively
10 connected to a first scan electrode and a second
11 scan electrode, thus forming the LCD panel
12 structure; and

13 performing dot inversion driving to the display units,
14 wherein when the dot inversion driving is completed for
15 a frame on the LCD panel, all display units in
16 the same row of the frame have the same video
17 signal polarization and display units in two
18 adjacent rows of the frame present polarization
19 opposite to each other.

20 5. The driving method according to claim 4, wherein
gates of control transistors of two adjacent display units
in a column between two adjacent data electrodes are not
connected to the same scan electrode.